Welding Properties (Cont.) SOV/3094	
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(YELISTRATOV, P.S., kand.tekhn.nauk

Depth of fusion of cast iron during hard facing with a steel electrode. Svar. proizv. no.4:20-21 Ap '61. (MIRA 14:3)

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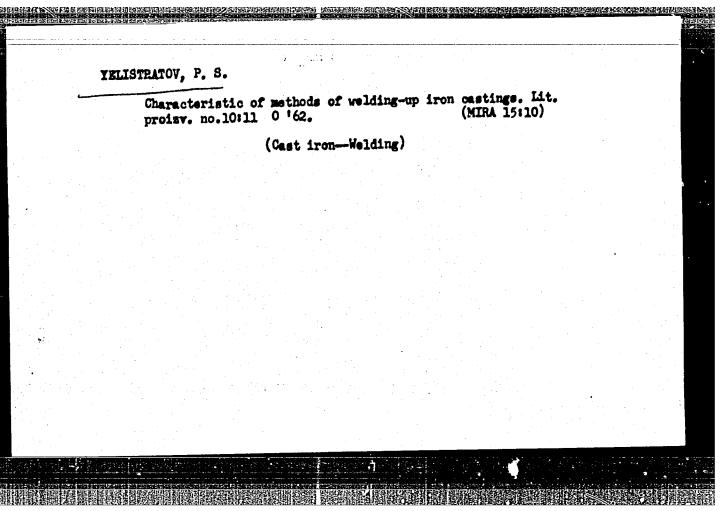
Effect of the removal by flame of steel casting defects on the quality of welded joints. Lit.proizv. no.11:36-38 N '61. (MIRA 14:10)

(Steel; castings—Finishing) (Welding—Testing)

YELISTRATOV, P.S.

Welding-up of defects on machined surfaces of large cast iron parts.
Stan.i instr. 32 no.12:36 D '61. (MIRA 14:12)

(Electric welding)



YELISTRATOV, P. S., kand. tekhn. nauk

Organizing the area for correcting the defects of iron castings.
Mashinostroenie no.5:99-101 S-0 '62.

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Accounting for weste in iron casting. Mashinostroenie no.5: 75-76 S-0 '63. (MIRA 16:12)

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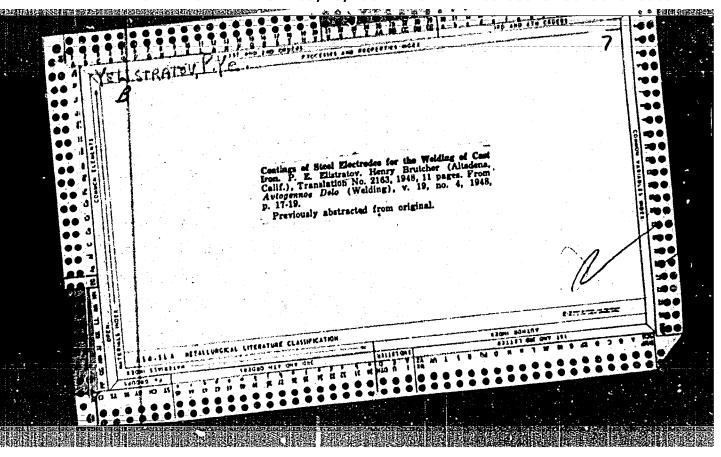
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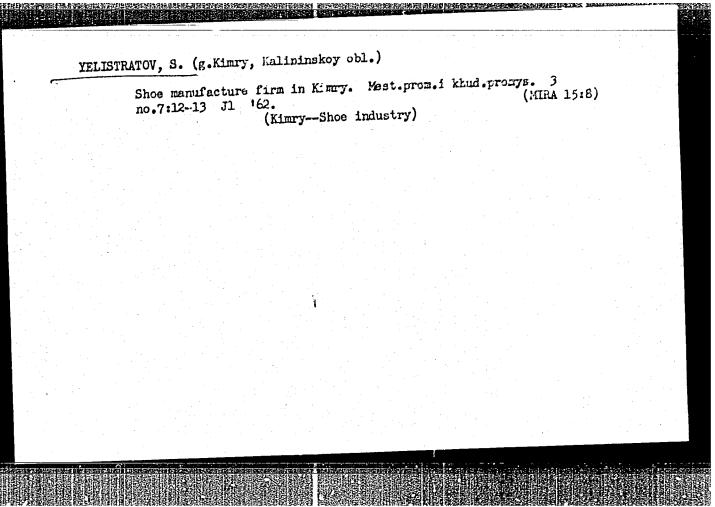
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Selecting optimum conditions for welding cast iron. Vest. mashinostr. 45 no.8:51-52 Ag 165.

(MIRA 18:12)

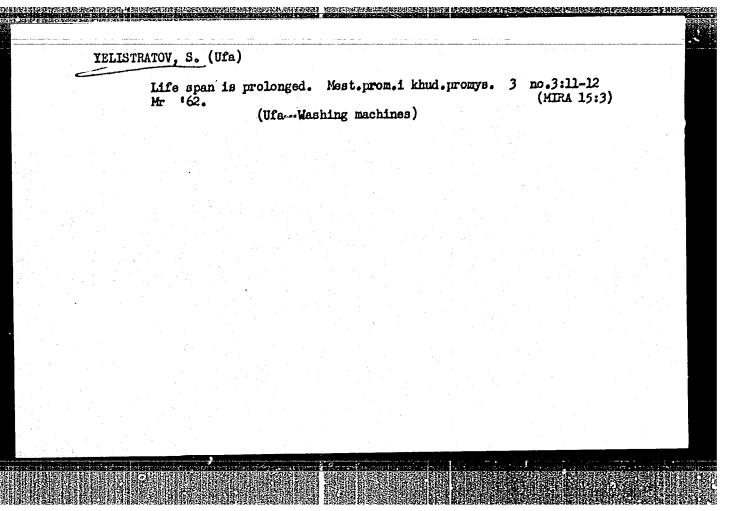


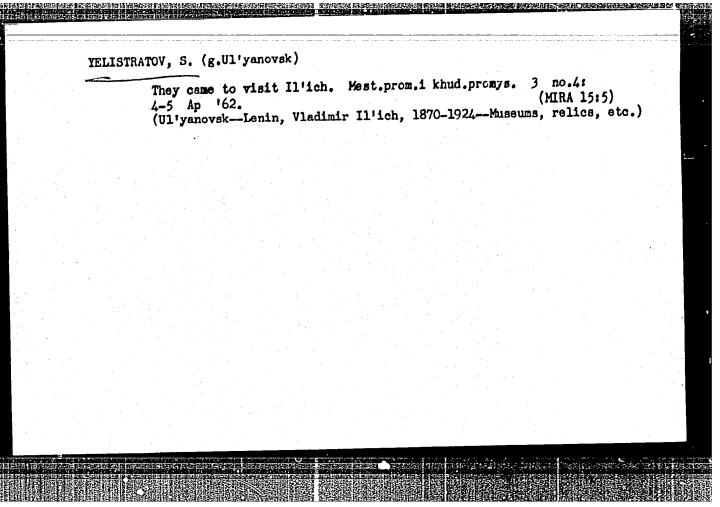


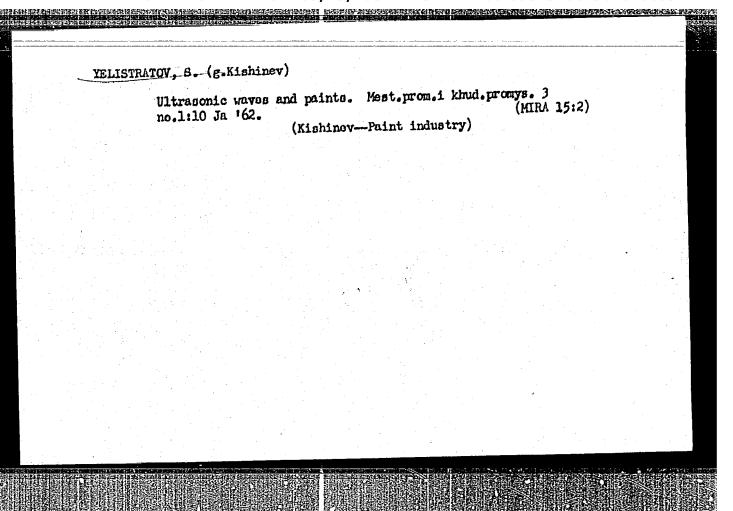
YELISTRATOV, S., podpolkovnik

These are our rocket troops. Voen. znan. 37 no. 1:6-7 Ja '61.

(Rockets (Ordnance))







KAZANTSEV, Anatoliy Mikhaylovich, dots., kand. tekhn. nauk;

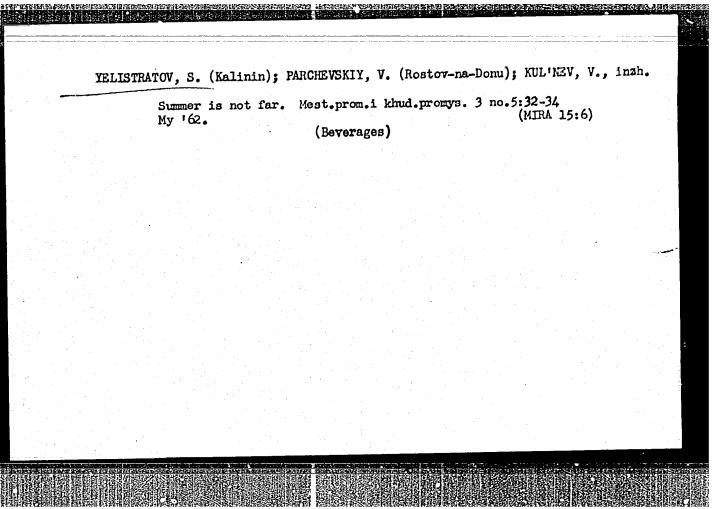
KALININ, Boris Arkhipovich, inzh.; SHANIN, Yu.N., retsenzent;

RZHECHITSKIY, B.D., retsenzent; YELISTRATOV, S.I., red.;

IOBANOV, Ye.M., red. izd-va; RIDNAYA, I.V., tekhn. red.

[Establishing work norms for loading and unloading work] Normirovanie truda na pogruzochmo-razgruzochmykh rabotakh. Moskva,
Izd-vo "Rechnoi transport," 1962. 196 p. (MIRA 15:7)
(Loading and unloading--Production standards)

APPROVED FOR RELEASE: 03/15/2001 CIA REP86-00513R001962610009



GLAZKOV, Mikhail Mikhaylovich; YELISTRATOV, S. I., retsenzent;
SIDOROV, P.P., red.; IDBAROV, 18.M., red. izd-va;
RIDNAYA, I.V., tekhn. red.

[Business accounting in a harbor section; from the work practice of the Moscow Western Harbor] Khosraschet uchastka porta; iz opyta rabbty Moskovskogo Zapadnogo porta. Moskva, Izd-vo "Rechnoi transport," 1963. 37 p.

(MIRA 16:10)

(Moscow--Port districts--Finance)

(Loading and unloading)

SOV/137-57-1-800

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 103 (USSR)

AUTHORS: Yelistratov, S.S., Redin, P.P.

TITLE: Continuous Casting Machines (Mashiny nepreryvnogo lit'ya)

PERIODICAL: V sb.: Proizvoditel'nost' truda na Stalingr. trakt. z-de. Stalingrad, Knigoizdat, 1955, pp 119-125

ABSTRACT: The installation of continuous casting of iron scouring spiders into metallic molds (M) afforded a 400-500% increase in the wear resistance of the spiders; the utilization of the metal from the gates as the cleansing pieces instead of its going to waste; and a decrease of the labor consumption of the production. M with vertical joints are set one against the other on the links of an endless slat-bushing chain, and the casting is carried out with M in continuous motion rounding the strain sprocket wheel and passing into the lower position. This automatically causes the M halves to open and drop out the castings. In order to simplify the repairs and replacement of M they are constructed in the form of inserts attached to the rings by bolts. The ready replaceability of the M permits the use of the machine for casting other articles differing slightly in weight and shape.

SOV/137-57-1-800

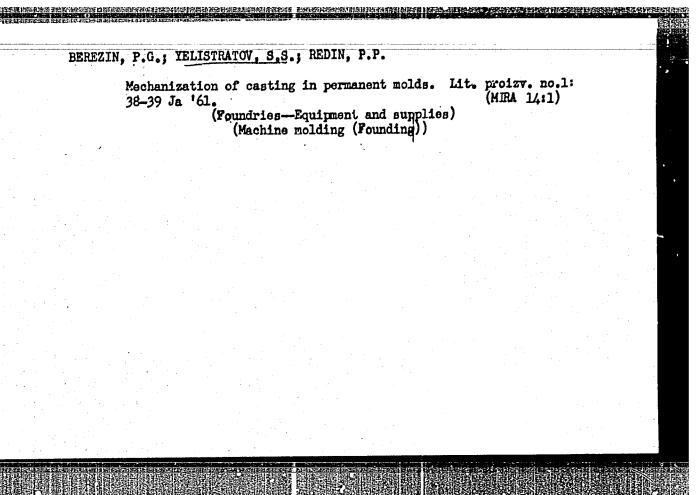
Continuous Casting Machines

The M serve for some 35,000 castings. The M are coated with a paste of the following composition (in %): Black graphite 44.8, fireclay 2.5, powdered dextrin 2.2, and water.

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Card 2/2

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HEREZIN, P.G.; kand.tekhn.nauk, dotsent; DANILIN, V.I., inzh.; ZVEREV, A.A.,inzh.; YELISTRATOV, S.S., dotsent; ZAMECHNIK, F.F., inzh.; REDIN, P.P., inzh.

Improving the quality of cast iron for molds. Stal '21 no.6:571-575
Je '61.

1. Stalingradskiy mekhanicheskiy institut i zavod "Krasnyy Oktyabr'."

(Cast iron)

(Ingot molds)

BEREZIN, P.G.; DANILIN, V.I.; YELISTRATOV, S.S.; ZVEREV, A.A.; ZAMECHNIK, F.F.

Efficient technology for the founding of large cast iron ingot molds. Stal 23 no.2:181-184 F '63. (MIRA 16:2)

l. Volgogradskiy mekhanicheskiy institut i zavod
"Krasnyy Oktyabr'".

(Iron founding) (Ingot molds)

NIKONOV, B.; YELISTRATOV, V.

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(MIRA 15:2)

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(Metals--Pickling)
(Chemistry, Metallurgic--Equipment and supplies)

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2. USSR (600)

"New method for determining the flexure of astronomical instruments,"
Astron. Zhur., 17, No 2, 1940. Pulkovo observatory (submitted Mar 1938;

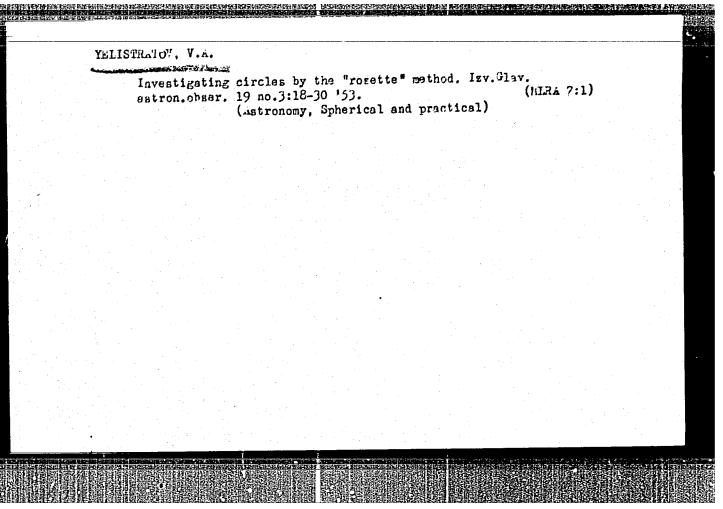
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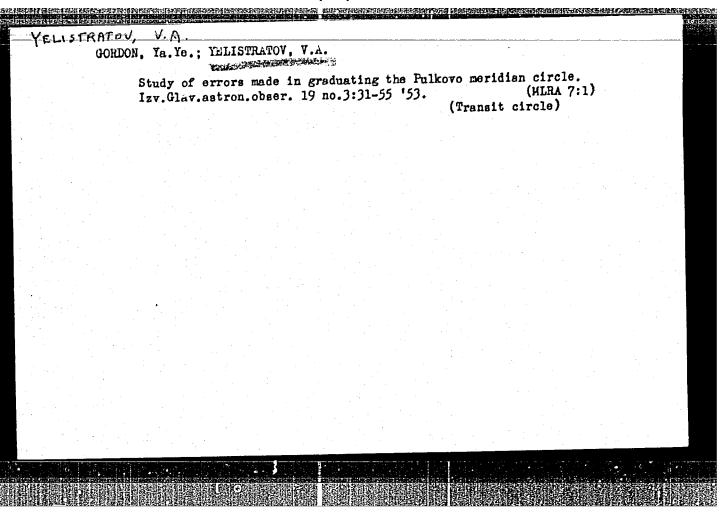
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What we demand from architects and builders. Gor. khos. Mosk. 32 (MIRA 11:1)

1. Ghleny obshohestvennoy komissii sodsystviya pri domoupravlenii. (Moscow--Apartment housea)

YELISTRATOV, V.S.; BITYUKOV, L.P.; NASYROV, M.Sh. Restoring the worn out parts of oil field equipment in the First of May Oil Well Drilling Trust. Mash. i neft. obor. no.9:38-40

(MIRA 17:11) 164.

Trest "Pervomayburneft's.

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YELISTRATOV, V.S.; BIRYUKOV, L.P.

Starting gate with a remote control system with quickly replaceable wearing parts. Mash. i neft. obor. no.8:33-34 '65. (MIRA 18:9)

1. Trest *Pervemayburneft**.

YELISTRATOV, Ye. M.

"Values Obtained by Radiographic Examinations of Mixed Crystals and Metallic Alloys."

report presented at the Conference on Investigation of Mechanical Properties of Hon-Metals, by the Intl. Society of Pure and Applied Physics and the AS USSR, at Leningrad, 19-24 May 1958. (Vest, Ak Nauk SSSR, 1958, no. 9, pp. 109-111)

YELISTRATOVA, L.I.; TEREKHINA, A.Ye.; BRYANTSEVA, N.N.

Determining physicochemical properties of unstable natural gasoline. Gaz. delo no.9:29-31 '65. (MIRA 18:9)

1. Otradnenskiy gazobenzinovyy zavod.

医食物性肠关节门间的形式 电影光光控制使行用的 医液性的现在分词形式感染性的大致的大致多数形式 医光光性 医光光性 医光光性 医光光性 医光光性 医光光性 医水子氏征

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AUTHOR:

Yelistratova, M. V.

TITLE:

A Finite Integral Hankel Transform

PERIODICAL:

Inzhenerno-fizioheskiy zhurnal, 1960, Vol. 3, No. 6,

pp. 120 - 125

TEXT: In this paper, a finite integral Hankel transform is obtained by means of which, for axisymmetric bodies, the boundary problem of the second kind can be solved for equations permitting partial solutions in the cylindrical coordinate system and representing a Bessel equation of the m-th order after separation of variables. The transform is obtuined by finding the eigenfunctions of the Sturm - Liouville problem. This method reveals the dependence of finite integral transforms on boundary conditions and on the geometrical form of bodies, and gives the algorithm according to which finite integral transforms with other kernels can be found. N. G. Shimko and P. P. Yushkov are mentioned. There are 5 Soviet references.

Card 1/2

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83145

A Finite Integral Hankel Transform

B/170/60/003/006/011/011 B013/B067

ASSOCIATION: Industrial nyy institut, g. Kuybyshev (Industrial

Institute, Kuybyshev)

Card 2/2

28660 s/020/61/140/002/005/023 C111/0444 16,4500 Yelistratova, M. V.

AUTHOR:

The finite Hankel integral transformations

TITLE:

Akademiya nauk SSSR. Doklady, v. 140, no. 2, 1961,

PERIODICAL:

295-298

TEXT: In order to obtain new integral transformations one uses expansions in terms of eigen-functions.

Let (1)

be the Fourrier expansion of f(x) in terms of the eigenfunctions of the

be the Fourite problem

Sturm-Lionville problem

$$(xu')' + \left[\lambda^2 x - \frac{m^2}{x}\right] u(x) = 0, \ a \le x \le b, \ h > 0, \ H > 0;$$

$$(xu')' + \left[\lambda^2 x - \frac{m^2}{x}\right] u(x) = 0; \ u' + Hu|_{x=b} = 0$$

Card 1/6

(2)

The eigenvalues λ_n are the positive roots of $\lambda_n^2 V_m(\lambda_n a) + H \lambda_n W_m(\lambda_n a) - h \lambda_n V_m(\lambda_n a) - h H W_m(\lambda_n a) = 0$ (5)

The finite integral transformation $\overline{f}(\lambda_n) = \int_{a}^{b} x \left[\lambda_n V_m (\lambda_m x) + HW_m (\lambda_n x) \right] f(x) dx \qquad (8)$

Card 2/6

S/020/61/140/002/005/023 C111/C444

The finite Hankel integral . . and its inversion, which is obtained from the representation for f(x)

$$f(x) = \frac{n^2}{2} \sum_{n} \times$$

$$\times \frac{\lambda_{n}^{2} \left[\lambda_{n} J'_{m} (\lambda_{n} a) - h J_{m} (\lambda_{n} a) \right]^{2} \int_{a}^{b} x \left[\lambda_{n} V_{m} (\lambda_{n} x) + H W_{m} (\lambda_{n} x) \right] f(x) dx}{\sum \frac{b^{2} \lambda_{n}^{2} - m^{2} + b^{2} H^{2}}{b^{2}} \left[\lambda_{n} J'_{m} (\lambda_{n} a) - h J_{m} (\lambda_{n} a) \right]^{2} - \frac{a^{2} \lambda_{n}^{2} - m^{2} + a^{2} h^{2}}{a^{2}} \left[\lambda_{n} J'_{m} (\lambda_{n} b) + H J_{m} (\lambda_{n} b) \right]^{2}} \times Q_{m} (\lambda_{n} x).$$

$$(?)$$

are called the Hankel transformation. For special values of h and H one obtains the well-known finite Hankel transformations.

The investigation of the case $a \rightarrow 0$ shows that for m < 1/2 the Hankel transformation

ankel transformation
$$f(\lambda_n) = \int_0^b x \left[CJ_m(\lambda_n x) + \lambda_n^{2m} J_{-m}(\lambda_n x) \right] f(x) dx,$$

Card 3/6

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28660 S/020/61/140/002/005/023 C111/C444

The finite Hankel integral . . may be introduced, where C is an arbitrary constant, and the λ_n are the positive roots of

 $\lambda_n^{2m} \left[\lambda_n J'_{-m} (\lambda_h b) + H J_{-m} (\lambda_h b) \right] + C \left[\lambda_n J'_{m} (\lambda_h b) + H J_{m} (\lambda_h b) \right] = 0 . (10)$

It is shown that the transformation (8) - (7) can be used for an effective solution of third order boundary value problems, if the homogenous equation, corresponding to the given equation, at least, allows a partial separat on of the variables.

Given is the problem

given is the problem
$$\frac{1}{r} \frac{\partial}{\partial r} \left(r \frac{\partial u}{\partial r}\right) - \frac{m^2}{r^2} u + D_1(z, \theta, t)u = f(r, z, \theta, t) \tag{14}$$

 $\frac{\partial u}{\partial r} - hu \Big|_{r=r_0} = F_1(z,\theta,t); \quad \frac{\partial u}{\partial r} + Hu \Big|_{r=R} = F_2(z,\theta,t); \quad h > 0; \quad H > 0$

If (14) is multiplied with r $Q_m(\lambda_n r)$, where $Q_m(\lambda_n r)$ are the eigen-Card 4/6

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S/020/61/140/002/005/023 C111/C444

The finite Hankel integral . . . City 6444

functions of the problem (2), and integrated over r form r₀ to R, one obtains the equation

obtains the equation
$$D_{1}\overline{u}(\lambda_{n}) - \lambda_{n}^{2}\overline{u}(\lambda_{n}) = r_{0}Q_{m}(\lambda_{n}r_{0}) F_{1}(z,\theta,t) - RQ_{m}(\lambda_{n}R) F_{2}(z,\theta,t) + \int_{r}^{R} rQ_{m}(\lambda_{n}r) f dr$$
(16)

which does not contain r and includes the boundary conditions for r. The solution searched for is then

$$u = \frac{\pi^{2}}{2} \sum_{n} \left\{ \left[\lambda_{n}^{2} \left[\lambda_{n} J'_{m} (\lambda_{n} r_{0}) - h J_{m} (\lambda_{n} r_{0}) \right]^{2} \int_{r_{0}}^{R} r \left[\lambda_{n} V_{m} (\lambda_{n} r) + H W_{m} (\lambda_{n} r) \right] u dr \right\} \left[\frac{R^{2} \lambda_{n}^{2} - m^{3} + R^{2} H^{3}}{R^{3}} \left[\lambda_{n} J'_{m} (\lambda_{n} r_{0}) - h J_{m} (\lambda_{n} r_{0}) \right]^{3} - \frac{r_{n}^{2} \lambda_{n}^{2} - m^{3} + r_{0}^{2} h^{3}}{r_{0}^{2}} \left[\lambda_{n} J'_{m} (\lambda_{n} R) + H J_{m} (\lambda_{n} R) \right]^{-1} Q_{m} (\lambda_{n} r) \right\}.$$
(17)

Card 5/6

28660 s/020/61/140/002/005/023 C111/C444

The finite Hankel integral . . where the summation in (17) is carried out over all positive roots of

There is 1 Soviet-bloc and 1 non-Soviet-bloc reference. The reference to English-language publication reads as follows: G. N. Vatson, Teoriya besselevykh funktsiy, ch. 1, JL, 1949 Watson, Theory of Bessel functions, Part IJ.

Kuybyshevskiy industrial nyy institut imeni V. V. ASSOCIATION:

Kuybysheva (Kuybyshev Industrial Institute imeni V. V.

Kuybyshev)

May 3, 1961, by J. N. Vekua, Academician PRESENTED:

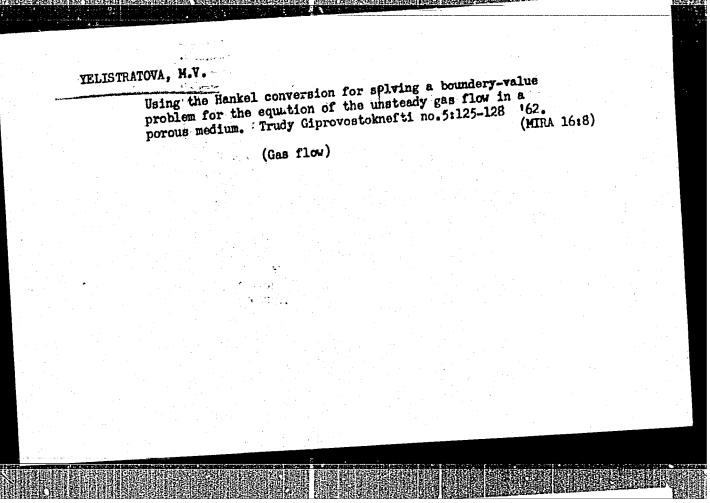
April 27, 1961 SUBMITTED:

Card 6/6

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CIA-RDP86-00513R001962610009-7



IJP(C) AFFTC EWT(d)/FCC(w)/BDS 5/0140/63/000/003/0044/0051 L 13070-63 ACCESSION NR: AP3000951 AUTHOR: Yelistratova, M. V. (Knyby*shev) TITLE: Finite integral Henkel transformations SOURCE: IVUZ. Matematika, no. 3, 1963, 44-51 TOPIC TAGS: Hankel transformation, Bessel equation, variable separation, boundary value problem ABSTRACT: The enthor develops a theory of Hankel transforms depending on certain eigenfunction expansions. She shows that the given finite integral transform is useful for solving boundary value problems of third type of equations for which the corresponding homogeneous equations permit at least a partial separation of variables and lead, with respect to the separation of variables, to a Bessel equation for a hollow cylindrical body. Orig. art. has: 46 formulas. ASSOCIATION: none ENCL: 00 DATE ACQ: 12Jun63 SUBMITTED: 28Ju160 OTHER: 003 NO REF SOV: 002 SUB CODE: 00 Card 1/1

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ILEMEY, N.A., professor; GROSHEV, A.V.; TELISTRATOVA, T.A., MIKITIN, B.D.;

PENTKOVSKIY, N.V.; PREORRAZHENSKIY, N.A.; RESHISHIT, L.Z.

[Practical mathematical work on calculating machines and instruments]

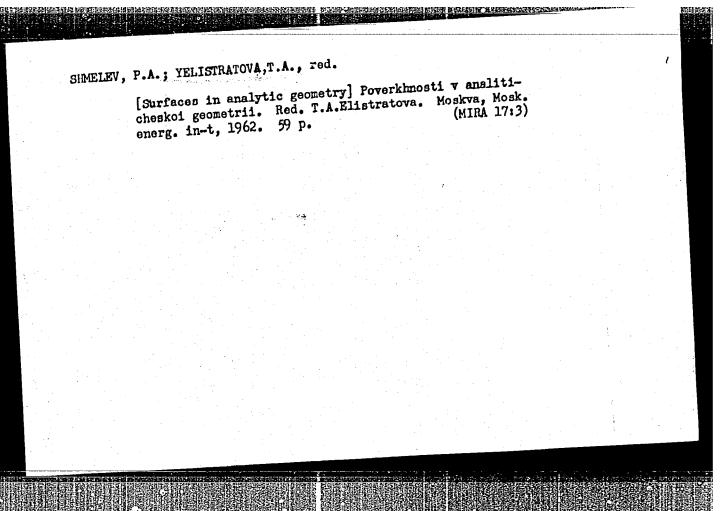
(Matematicheskii praktikus na schetnovychislitel'nykh priborakh i

Matematicheskii praktikus na schetnovychislitel'nykh priborakh i

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(Galculating machines) (Approximate computation)



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New trends, new ideas. Obshchestv. pit. no.11:13-15 N '61.

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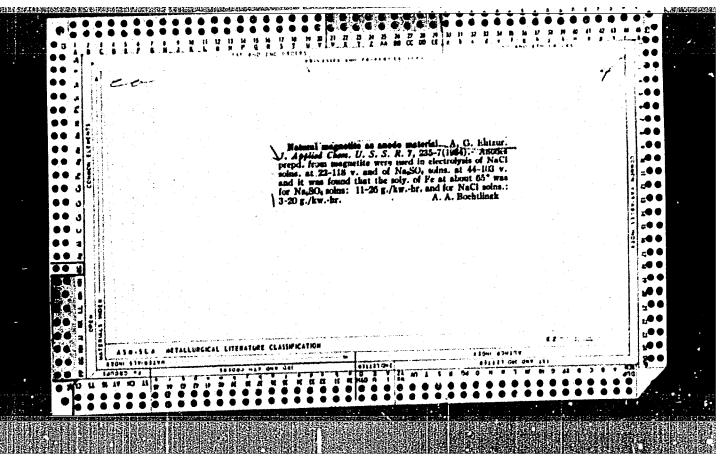
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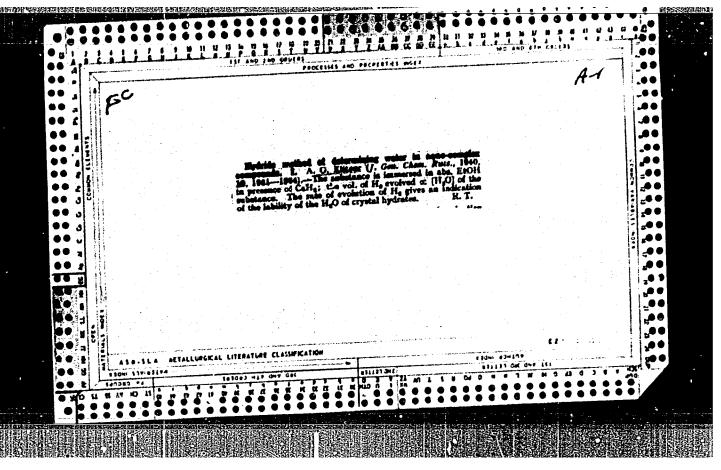
Forestry Engineering

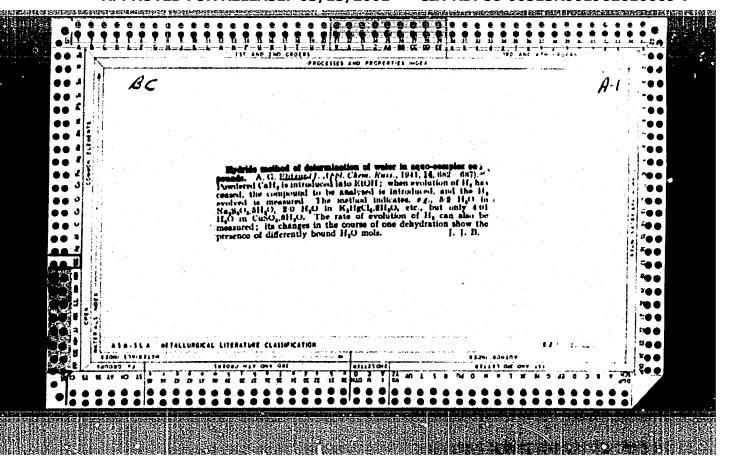
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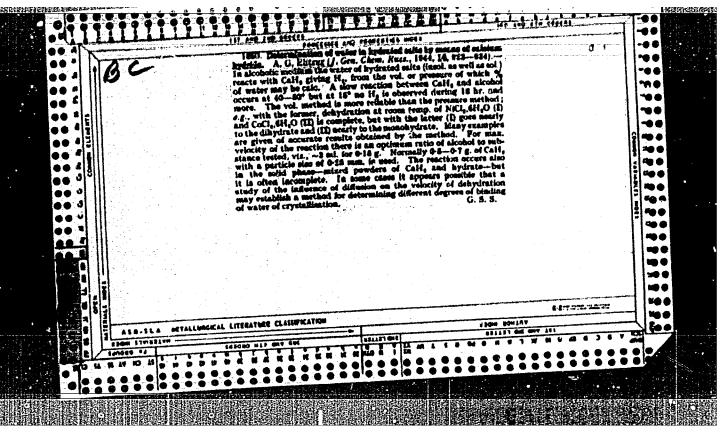
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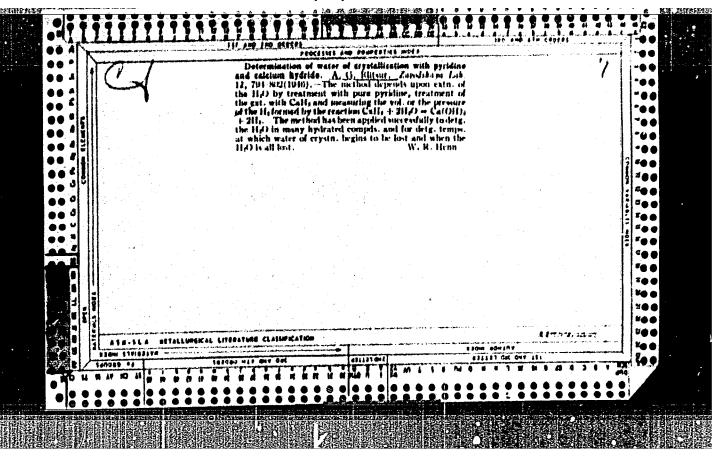
YELITENKO, Ye. I. Cand Tech Sci — (diss) "Regularities in the Formation of Microbubbles in a Flotation Machine in Relation to the Hydrodynamic and Thermodyamic Operating Conditions of the Impeller," Moscow, 1960, 28 pp, 200 copies (Moscow Mining Institute im Stalin) (KL, 46/60, 125)

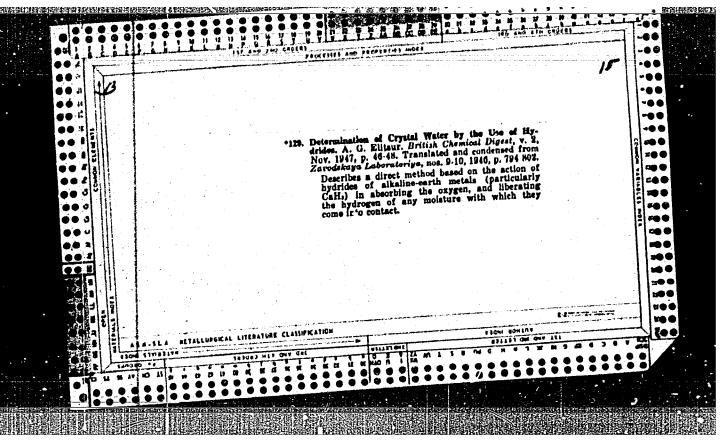












ELITSUR, A. G.

6680

ELITSUR, A. G. -- Regid determination of the water content of bleed serum. Biochimiay, Mosk. 1951, 16/1 (81-83) Tables 2 Illus. 1

The principle described was originally used for determination of water in chemicals (4 references). Now the method has been adapted for determination of water in blood serum. Special glass apparatus is used. The reaction is carried out in dry dioxan. Water from a measured portion of blood serum is allowed to react with calcium hydride and the volume of hydrogen is measured. The method is applicable also to other biological fluids.

Heyrovsk'y - Prague

SO: Excerpta Medica, Section II, Vol. 4, No. 12

YELITSUR, A. G.

USSR/ Chemistry - Hydrotes

Oct 51

"Investigation of Hydrates by the Hydride Method," K. V. Astrkhov, A. G. Yelitsur, K. M. Nikolayev.

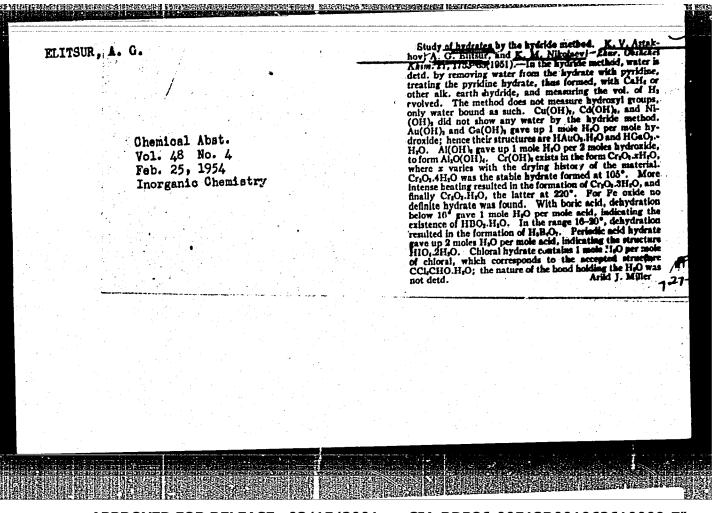
"Zhur Obshch Khim" Vol XXI, No 10, pp 1753-1763.

Examd nature of Cu, Au, Cd, Al, Ga, Cr, Fe, Ni hydroxides, orthoboric and iodic acids, chloral hydrate, detg H2O content by "Hydride" method, in which H2O is leached from hydrate with pyridine, forming pyridine hydrate which reacts with alk earth metal hydrides to yield vol of H2O equal to initial H2O content off hydrate.

PA 194 T22

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962610009-7



PLYUSHCH, A.M.; ASADOV, A.I.; YELIYEV, Some results of second shaft drilling in fields of the Oil Field Administration of the Artem Petroleum Trust. Azerb. neft. khoz.
41 no.11:30-31 N :62.

(MIRA 16:2)

(Artem Island-Oil fields-Production methods)

CIA-RDP86-00513R001962610009-7" APPROVED FOR RELEASE: 03/15/2001

ELIZITE, IM, U. A USSR/ Enginsering - Machine tools Pub. 128 - 12/23 Card 1/1 : Satel', Z. A., and Elizabetin, M. A. Authors THE RESERVE THE PROPERTY OF THE PARTY OF THE * The effect of hyraulic polishing methods on the exploitational Title characteristics of the steel Periodical : Vest. mash. 2, 51 - 55, Feb 1955 1 The structure, operation and performance of a hydraulic installation Abstract for polishing machine components is described, and technical data acc riven a chemical composition of abrasive solutions, and the influence of hydraulic polishing methods on various characteristics of the steel. Graphs; drawings; illustrations. Submitted:

YELIZARO'SKIY, S.I., prof.

Evaluation of ligation of the internal thoracic artery for improving the blood supply of the heart. Khirurgiia 40 no.1:39-45 Ja 164.

(MIRA 17:11)

1. Kafedra operativnoy khirurgii Arkhangel'skogo meditsinskogo instituta.

YELIZAROV, A., insh.

Comprehensive norms for derrick construction in exploratory drilling.
Scts. trud. no.8:137-138 Ag '58. (MIRA 11:9)

1. Otdel truda tresta "Stalingradneftegazraxvedka."

(Stalingrad Province—Boring—Production standards)

PAVLOVSKIY, B.: YELIZAROV, A.

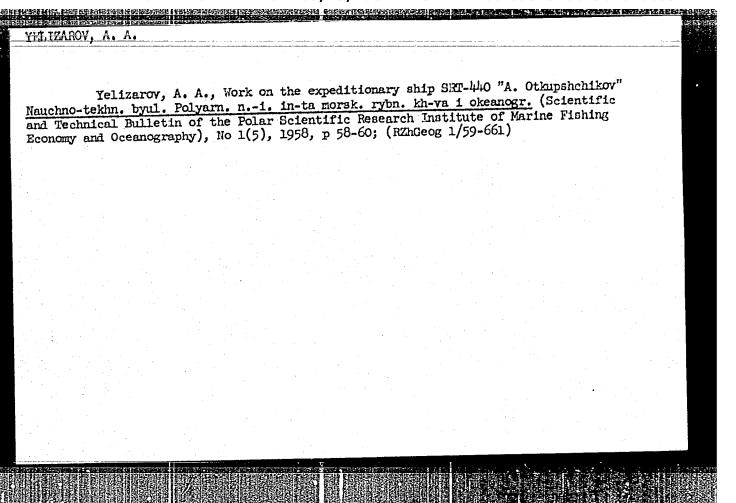
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More authority for work norm experts on drilling sites. Sots.trud 4 no.?:132 J1 59. (MIRA 13:4)

1. Nachal'nik otdela truda i zerplaty tresta "Stalingradueftegazrazvedka" (for Pavlovskiy). 2. Starshiy inzhener otdela truda i zarplaty tresta "Stalingradueftegazrazvedka" (for Yelizarov). (011 well drilling--Production standards)

Yelizarov, A. A., Hydrological conditions and the fishing trade on the north slope of the Gusinaya Bank, Nauchno-tekhn. byul. Polyarm. n.-1. in-ta morsk. rybn. kh-va 1 (Scientific-Technical Bulletin of the Polar Scientific Research Institute of the hydrone Fishing Economy and Oceanography), No 1(5), 1958, p 37-h0; (RZhGeog 1/59-668)

Marine Fishing Economy and Oceanography), No 1(5), 1958, p 37-h0; (RZhGeog 1/59-668)



YELIZAROV, A.A. Annual fluctuations in the intensity of the Labrador and West Greenland Currents and the possibility of forecasting the temperature conditions in the commercial areas of the northwestern Atlantic Ocean. Okeanologiia 2 no.5:796-809 '62. (MIRA 15:11) 1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii (VMIRO). (Atlantic Ocean—Ocean currents) (Atlantic Ocean—Ocean temperature)

YELIZAROV, A.A. Odeanographic conditions determining the yield of the generation of most important commercial fishes in the northwestern part of the northern Antarctic. Okeanologiia 3 no.6s1065-1078 '63. (MIRA 17:4) 1. Vsesoyuznyy nauchno-issledovitel'skiy institut morskogo rybnogo khozyaystva i okeanografii.

Local application of pancreatin to deep burns. Khirurgiia 38 no.12:70-72 D '62. (MIRA 17:6) 1. Iz kliniki propedevticheskoy khirurgii (zav. - prof. S.P. Shilovtsev) Kuybyshevskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001962610009-7"

YELIZAROV, A.F., ordinator

Use of pancreatin in deep burns; em experimental clinical study. Trudy Kuib. med. inst. 24:190-202 163

1. Iz kafedry obshchey khirurgii (zav. - zasluzhennyy deyateli nauki RSFSR prof. S.P. Shilovtsev). Kuybyshevskogo meditsinskogo instituta.

YKLIZAROV, A.F., ordinator; KARASEV, H., student

Effect of mycerin on the flora of burns. Trudy Kuib. med. inst. 24:203-206 163 (MIRA 17:4)

1. Iz kafedry obshchey khirurgii (zav. kafedroy - zasluzhennyy deyatel nauki RSFSR prof. S.P. Shilovtsev) Kuybyshevskogo meditsinskogo instituta.

SOLOVKOV, Aleksandr Konstantinovich; TRIFONOV, Aleksey Grigor'yevich;

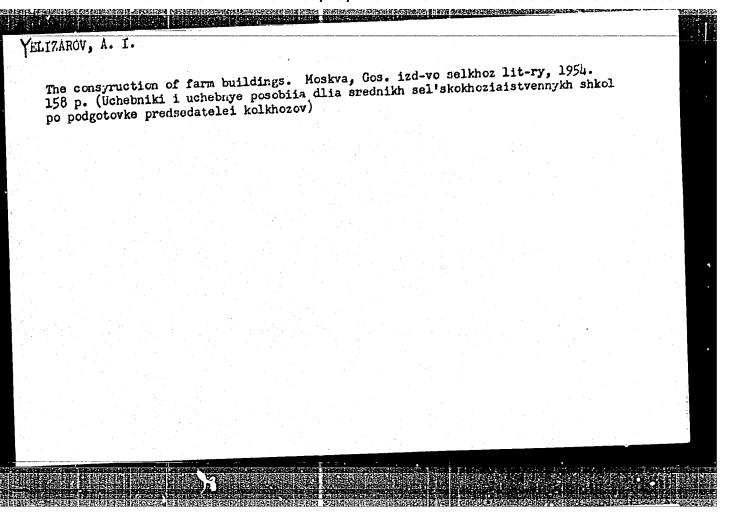
ILIZAROV, Aleksandr Georgiyevich; PAMFILOV, M.I., redektor;

ILIZAROV, Aleksandr Geo

VORONOV, F.D.; TRIFONOV, A.G.; KHUSID, S.Ye.; DIKSHTEYN, Ye.L.; VAL'PITER, E.V.
SIEGIREV, Yu.B.; APTIPIN, V.G.; Prinimali uchastiye: SMIRNOV, L.A.;
KAZAKOV, A.I.; YELIZAROV, A.G.; KULAKOV, A.M.; KOZHAKOV, M.G.;
ZARZHITSKIY, Yu.A.; ARTAMONOV, M.P.; COL'DEHBERG, I.B.; ROMANUV,
V.M.; NOVIKOV, S.M.; MAYEVSKIY, A.B.; DMIRRIYEV, I.; MANZHULA, M.;
BEREZOVOY, I.A.; ZUTS, K.A.; BADIN, S.N.; TATARINTSEV, G.;
MITROFANOV, N.G.; GAVRILOVA, K.M.; IVANOV, N.I.

Operating a 400-ten open-hearth furnace on casing-head gas.
Stal' 20 no. 7:594-598 Jl '60.

(Open-hearth furnaces—Equipment and supplies)

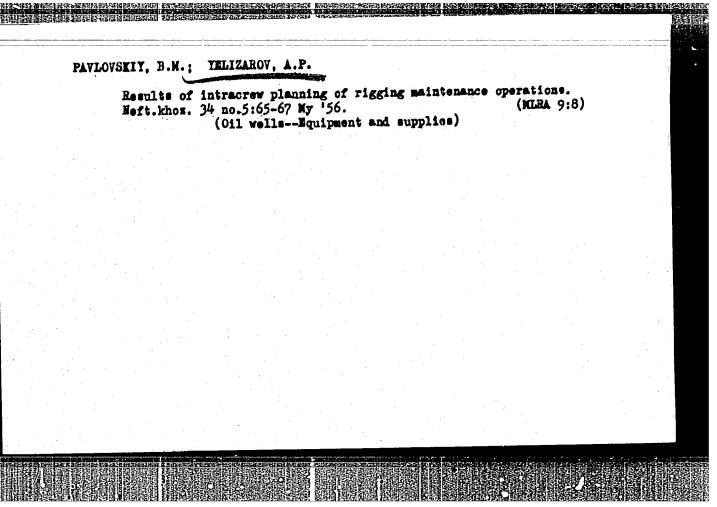


YELIZAROV, Aleksandr Nikolayevich; NOVOSPASSKIY, V.V., red.; RAKOV, S.I., tekhn.red.

[The Caucasian ring; an automobile tour] Kaykazakoe kol'tso; avtomobil'nyi marshrut. Moskva, Izd-vo VTsSPS Profizdat, 1960.

(MIRA 14:6)

126 p. (Tourism)



	ROV, A.S. Automatic measuring waveguide line. Izm. tekh. no. 1:40-42 (MIRA 14:1)							
	Ja 161.					(MIR.	A 14:1)	
	(Electri	c meaurements)	(Wave g	#146B)			
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TITLE:

Yelizarov, A.S.

AUTHOR:

A method of measuring the nonreciprocal phase-shift

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in a rectangular waveguide with ferrite

Izmeritel'naya tekhnika, no. 2, 1962, 48 - 53 PERIODICAL:

The method proposed is free from the usual disadvantages of the known methods, where it is necessary to reverse by mechanical or electrical means the direction of propagation of electrical energy in a waveguide section with ferrite. The method of measuring the nonreciprocal phase-shift is based on the system illustrated in Fig. 1. In this the energy from a generator is fed through a measuring line into the arm A of a double Tjunction. Here the energy is divided between the arms A and does not enter into the arm B, which is also terminated with a matched load. The arms E and H are connected by a waveguide section containing a ferrite element situated in a transverse magnetizing field. The required rotation of the polarization plane can thus easily be achieved. The portion of the energy entering into the arm E passes through this section Card 1/

S/115/62/000/002/008/009 E192/E382

A method of measuring ...

and returns through the section H into the junction and is divided between the arms A and B, without entering the arm E. This is principally due to the fact that the annular circulation of energy is eliminated. In the arm B the energy is absorbed by the matched load, while the energy from the arm re-enters the measuring line. The energy entering the arm H undergoes analogous "transformations". The only difference is that the energy propagates in the opposite direction, through the section of the waveguide with ferrite. The measuring equipment (see Fig. la) consists of: 1 - HF generator which is amplitude-modulated by means of rectangular pulses; 2 - a buffer attenuator; 3 - measuring line; 4 - detector; amplifier with an indicator and 6 - the output stage (including the double T-junction). Three different waves exist in the measuring line: the wave propagating from the generator towards the juntion (incident wave) and two waves propagating from the junction to the generator. These two waves can be regarded as being reflected from two loads having suitable reflection coefficients. The output stage can therefore be represented by

,但我也是这些人的,你就是我们的人,你就是我们的人,你就是我们的人,你就是我们的人,你就是我们的人,你就是我们的人,你就是我们的人,你就是我们的人,你就是我们的

Card 2/5

s/115/62/000/002/008/009 E192/E382

A method of measuring

an quivalent circuit, shown in Fig. 2. If it is assumed that the waveguide section with a ferrite acts as a "valve" only with respect to the phase-shift, the moduli of the reflection coefficients for these loads can be assumed as being equal. phases of the reflection coefficients will differ in the absence of an external magnetic field since the two waves propagate in opposite directions. It is shown that the nonreciprocal phase-shift can be expressed by:

al phase-shift can be
$$\Delta \varphi = 2 \operatorname{arc} \cos \frac{(\sigma_0 + 1)(\sigma - 1)}{(\sigma_0 - 1)(\sigma + 1)}$$
(6)

where or is the standing-wave ratio of the system as defined by:

Card 3/5

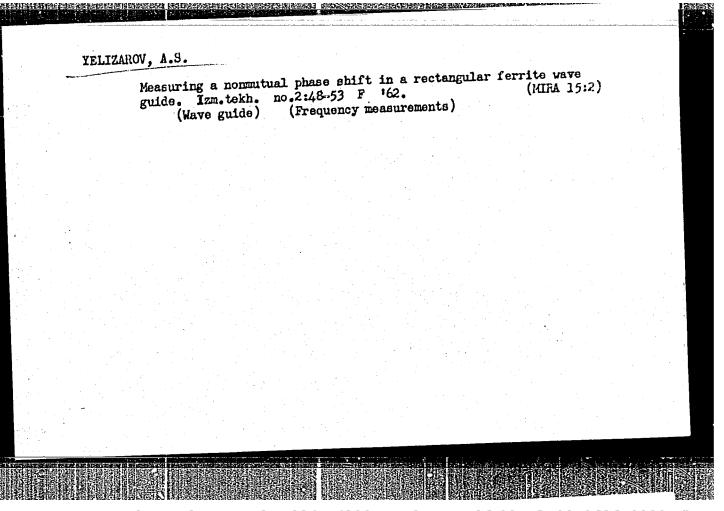
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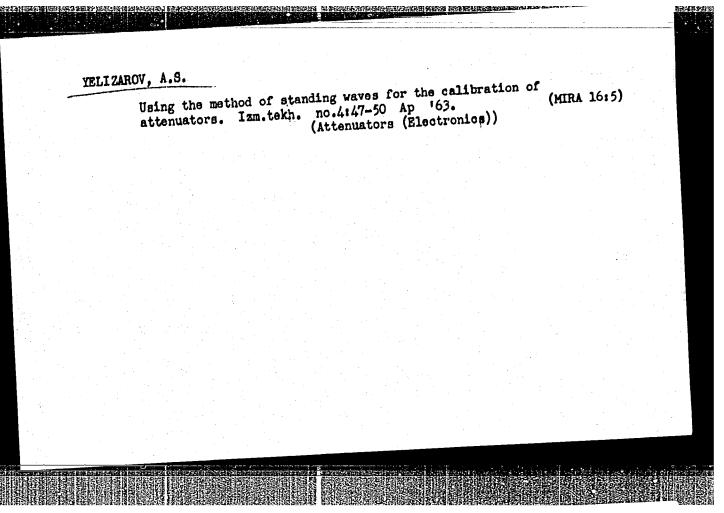
A method of measuring

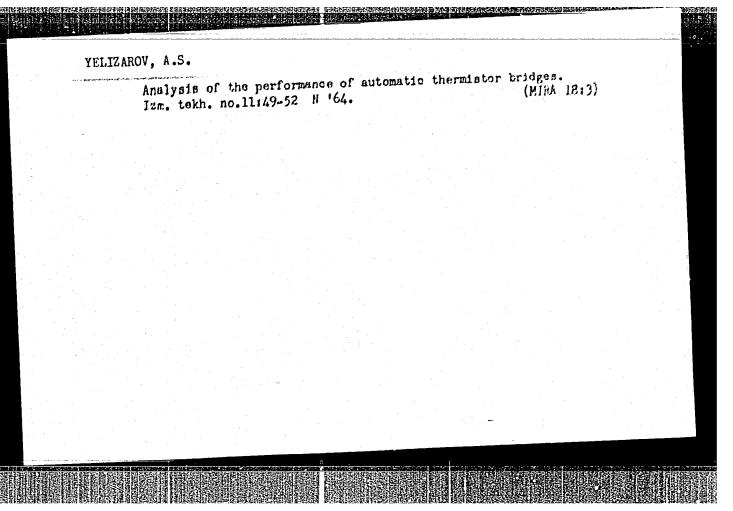
$$o' = \frac{1 + 2kp_0 \cos \frac{\psi_{1H} - \psi_{2H}}{2}}{1 - 2kp_0 \cos \frac{\psi_{1H} - \psi_{2H}}{2}}$$
 (2).

The principal error in this method of measurement of $\Delta\phi$ is caused by the systematic errors of the measuring line and these are analyzed in some detail. It is found from the analysis of the errors that the method can be used for the accurate measurement of the phase-shifts $\Delta\phi \geq 90^\circ$. This limitation is usually quite acceptable since, in general, the ferrite sections having $\Delta\phi=90^\circ$ and $\Delta\phi=180^\circ$ found very wide applications. The method can primarily be used not in laboratories but in mass-production for checking the ferrite sections $\Delta\phi=90^\circ$ and $\Delta\phi=180^\circ$. There are 4 figures and 2 Soviet-bloc references.

Card 4/5







YELIZAROV, A.V.

51-4 -3-2/30

Marking Company of the School of the School

AUTHORS:

Bonch-Bruyevich, A.M. and Yelizarov, A.Y.

TITIE:

Double Luminous Layers in a High-Frequency Discharge

in Hydrogen. (Dvoynye svetyashchiyesya sloi v

vysokochastotnom razryade v vodorode.)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol.IV, Nr.3,

pp.289-295 (USSR).

ABSTRACT:

The presence of luminous layers in high-frequency discharges in light gases (hydrogen and helium), each of these layers consisting of a pair of symmetrical luminous disks separated by a dark space, was reported in 1928-31 (Refs.1-3). Double luminous layers in hydrogen were observed in a wide range of pressures (from tenths to tens of nm Hg) and a wide range of frequencies from 100 kc/s to 10 Mc/s.

layers were found in discharge gaps of various

geometries, both with external and internal electrodes. It is assumed that appearance of such layers is related

to some properties of high-frequency discharges or to peculiarities of discharges in light gases. The present paper reports new data obtained in connection

with the study of the modulation characteristics of

Card 1/5

51.4 -3-2/30 Double Luminous Layers in a High-Frequency Discharge in Hydrogen.

emission of a high-frequency discharge in hydrogen. The apparatus used is shown schematically in Fig.1. glass discharge tube (P in Fig.1) was used with internal or external electrodes and was filled with hydrogen obtained by electrolysis. A high-frequency generator ([in Fig.1) produced a signal of 1 to 10 Mc/s. Voltage across the electrodes could be varied from O to 2000 V and the distance between the electrodes could be extended up to 100 mm. An image of the luminous layers was projected on to the entrance slit of a spectrograph (C in Fig.1). A photomultiplier, an amplifier and a valve voltmeter were used to record amplitudes of the harmonic components of modulation of the emission intensity. By means of two slits a portion of the discharge gap about 4 mm wide could be Fig.2 shows photoselected for modulation studies. graphs obtained on varying the current density in the discharge tube. At sufficiently high current densities (5 x 10-2 A/cm²) the discharge gap was filled by a uniformly emitting column. Decrease of the current density produced first a dark space in the

Card 2/5

51-4 3-2/30 charge in Hydrogen.

Double Luminous Layers in a High-Frequency Discharge in Hydrogen.

middle of the discharge gap (Fig.2a), then a double With further decrease of the luminous layer (Fig. 2b). current density an increasing number of double layers (Fig.2, v, g, d) was observed. On decrease of the current density below a certain value the discharge On decrease of the takes up the form shown in Fig.2e. Replacing of internal by external electrodes does not affect the complex structure of the middle portion of the dis-Various external influences (e.g. an earthed charge. electrode placed outside the discharge tube, change of the interelectrode distance, or application of a magnetic field normal to the tube axis) cause displacements (or increase of the number) of double luminous layers without affecting the distance between the two luminous disks of which each such layer con-This distance between the disks decreases with sists. Fig.4 shows increase of hydrogen pressure (Fig.3). the emission spectra at 10 Mc/s of a double luminous layer (Fig. 4a), a near-electrode portion of the discharge (Fig. 4b), and a central portion of the discharge in the absence of double luminous layers

Card 3/5

51-4 -3-2/30 Double Iuminous Layers in a High-Frequency Discharge in Hydrogen. Fig.5a shows distribution along the discharge-tube axis of the mean value of the emission intensity (Io) and of the first (I1) and the harmonics of modulated emission by discharges with dark spaces in the middle (see Fig. 2a). second (I2) Fig.5b gives similar curves for a discharge with a single double luminous layer (shown in Fig. 2b), while Fig.5v and Fig.6 give similar curves for discharges with two double layers (see Fig.2v). that emission from the disks of which the luminous layers are composed is modulated in anti-phase with A tentative explanation of the Double luminous layers the applied voltage. effects observed is proposed. arise in the regions with high field intensities. On lowering of the discharge-current density, the field intensity in the middle (dark) portion of the discharge The double structure of luminous layers is ascribed to the presence of a potential well between the two disks. The edges of this potential well correspond to the positions of the two luminous disks. Card 4/5

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51-4-3-2/30

Double Luminous Layers in a High-Frequency Discharge in Hydrogen.

The causes of increased field intensity in the middle of the discharge gap and formation of the potential The authors point out that a well are discussed. full theory of the double luminous layer should take into account the presence of a continuous background There are 6 figures and 9 references, of spectrum. which 3 are Soviet, 3 German, 2 English and 1 American.

ASSOCIATION: State Institute of Optics imeni S.I. Vavilov. (Gosudarstvennyy opticheskiy institut im. S.I. Vavilova.)

SUBMITTED: May 10, 1957.

1. High frequency discharges - Luminous effects

Card 5/5

IMLIDARCY, A. YA.			∏/5 748 . 1			
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	Stroitel'stvo sel'skokhozyaystvennykh postroyek. Moskva, Sel'khozgiz, 1954.	(The	Building	of Far	m Structure	rs).
	158 p. diagra.					
	"Literatura": p. (159)					
	At head of title: Uchebniki i uchebnyye posobiya shkol po podgotovkye predsedateley kolkhozov.	dlya	srednikh	sel¹sk	okhozyaystv	ennykh
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107-12-23/46

AUTHOR:

Yelizarov, B.

TITLE:

144-146-mc Ultrashort-Wave Radio Station (UKV radiostantsiya na 144-146 mgts)

PERIODICAL: Radio, 1956, Nr12, pp. 25-27 (USSR)

ABSTRACT: A description of an amateur-made walkie-talkie type radio transceiver station for two-way simplex communication within 1 km range is given. The following tubes are used: two 1025 for the push-pull superregenerator, one 0.6025 and one 1025 for detection and a-f amplification. The same tubes are used for transmitter. 2.000-ohm head phone and piezoelectric microphone are used in the station. Battery supply lasts 12 to

15 hrs of continuous service. Receiver sensitivity 10-15 uv. Plate battery F5-CA-45 with the plate current 4 ma in reception and 5-7 ma in transmission is used in this station.

The station was exhibited at the 13-th All-Union Exhibition of Radio Hams' Constructions and had "attracted a great attention" there; the author was awarded the 3-rd prize in the VHF Section of the Exhibition.

AVAILABLE: Library of Congress

There are 3 figures in the article

Card 1/1

CIA-RDP86-00513R001962610009-7" APPROVED FOR RELEASE: 03/15/2001

sov/107-58-2-14/32 Yelizarov, B. · AUTHOR: (Radiostantsiya na A Radio Station for 420-425 Megacycles TITLE: 420-425 mgts) Radio, 1958, Nr 2, p 24-26 and p 4 of center fold (USSR) PERIODICAL: A portable, ultrashortwave radio station, working in the amateur range of 420-425 megacycles, is described. Tho ABSTRACT: device permits two-way communication at a distance of 1.5 km. Figure 1 shows the circuit diagram. The radio station consists of a separate transmitter and receiver which permit duplex operation, whereby it is necessary to have a frequency difference of about 2 megacycles. The HF part of the transmitter consists of a push-pull auto-oscillator with capacitive feedback composed of "283A" tubes. The transmitter frequency is fixed at 420 megacycles. The frequency modulation of the transmitter is achieved by changing the capacity of the germanium diodes "D2V". The modulator is a two-stage LF amplifier; the first stage is composed of one "O6P2B" tube and the output stage is equipped with one "1P3B" and works on Card 1/2

A Radio Station for 420-425 Megacycles

SOV/107-58-2-14/32

the load of the frequency modulator. The power at the transmitter output is 0.1 watt. The receiver is built as a super-regenerative detector, having two "253A" tubes in the push-pull arrangement. The LF preamplifier stage consists of a "P6V" transistor with grounded emitter. The second stage of the LF amplifier is a power amplifier with a "1P3B" tube, to whose anode circuit a high-ohm telephone is connected. The sensitivity of the receiver is about 15 microvolts.

There are 3 diagrams and 2 drawings.

- 1. Radio stations-Design 2. Radio stations--Operation
- 3. Radio stations-Equipment

Card 2/2

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962610009-7

GOV/107-58-10-36/55

AUTHOR:

Yelizarow, B.

TITLE

Ultra-Shortwave Radio Stations for One-Way Communication on 144-146 mc (UKV radicatanteil Alyu odnostoronney svyazi na

144-145 m.g.ts.)

PERIODICAL:

Radio, 1958, Nr 10, pp 42-45 (USSR)

ABSTHACT:

Two types of portable radio-sets for one-way communication on 144-146 mc are described; one is intended for training parachutists and glider-pilots, with a range of 15 km, and the other for transmitting the signalman's commands to the tower-Grane operator during rigging work, and has a range of 500 m in town conditions. The h-f unit of the transmitter of the former model comprises a two-stroke ultra-shortwave autcgenerator with capacitive feedback mounted on a type 6N3P twin triode. A quarter-wave antenna is used. The receiver is assembled according to a straight amplification circuit, and has an h-f amplifier, a super-regenerative detector and a low-frequency amplifter. The antenna is a nonsynchronous, half-wave vibrator made out of type RK-19 coaxial cable. The h-f unit of the transmitter for use in crane operations is mounted on type 253A battery ultra-shortwave triodes. The antenna is a quarter-wave rod. The receiver has one aperiodic

Card 1/2

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962610009-7"

SOY/107-58-10-35/55

Ultra-Shortwave Radio Stations for One-Way Communication on 144-146 mc

h-f amplification stage assembled as a circuit with grid grounding. The antenna is a half-wave nonsynchronous vibrator which is connected up to the inlet of the receiver by means of type RK-1 coaxial catle (the author describes how this is done). Both radio sets have been working satisfactorily for over six months. Details of their working and adjustment are given.

There are 4 circuit diagrams and 2 diagrams.

Card 2/2

